

Question No.

Q 2

i)

a) 
$$\begin{array}{r} 1101 \ 0111 \\ 0010 \ 1000 \end{array}$$

$$0010 \ 1000$$

0/2

b)

0/2

0/2

0/2

ii)

iii)

$$\begin{array}{r} 84 \div 2 \\ 42 \div 2 \\ 21 \div 2 \\ 10 \div 2 \\ 5 \div 2 \end{array} \quad \begin{array}{r} 42 \\ 21 \\ 10 \\ 4 \\ 2 \end{array} \quad \begin{array}{r} 0 \\ 0 \\ 1 \\ 1 \\ 0 \end{array}$$

$$= 01100$$

1/2

b)

$$\begin{array}{r} 246 \div 2 \\ 123 \div 2 \\ 71 \div 2 \\ 35 \div 2 \\ 17 \div 2 \\ 8 \div 2 \\ 4 \div 2 \\ 2 \div 2 \end{array} \quad \begin{array}{r} 123 \\ 71 \\ 35 \\ 17 \\ 8 \\ 4 \\ 2 \\ 1 \end{array} \quad \begin{array}{r} 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \end{array}$$

$$00011100$$

0/2